Supplemental Specification
901-S-711-2
Synthetic Structural Fiber Reinforcement

## OFFICE OF STATE AID ROAD CONSTRUCTION MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DATE: May 10, 2006

**SUBJECT:** Synthetic Structural Fiber Reinforcement:

Section <u>S-711 - REINFORCEMENT AND WIRE ROPE</u>; of the MISSISSIPPI STANDARD SPECIFICATION FOR STATE AID ROAD AND BRIDGE CONSTRUCTION 2004 EDITION is hereby amended as follows:

After Subsection S-711.03.4.3 on page 7-83, add the following:

<u>901-S-711.04--Synthetic Structural Fiber</u>. Synthetic structural fibers shall meet the requirements of ASTM Designation: C 1116, Section 4.1.3, Part III. The fibers shall be monofilament made of polypropylene or polypropylene/polyethylene blend meeting the following conditions:

<u>Property</u> <u>Re</u>	<u>esults</u>
Length, minimum          Aspect Ratio (length / equivalent diameter)          Breaking tenacity, minimum*          (Tensile Strength, minimum	90 N/tex
Chord modules, minimum*	N/tex

<sup>\*</sup> When tested in accordance with ASTM Designation: D 3822

The dosage rate for the fibers shall be a minimum of three pounds per cubic yard (3 lb / yd<sup>3</sup>). The dosage rate for the fibers when used in pile encasements shall be a minimum of four pounds per cubic yard (4 lb / yd<sup>3</sup>).

The manufacturer shall furnish the Engineer three copies of the certified test report(s) showing results of all required tests, and certification that the material meets the specifications.